

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8	("20030147661"   "20030228164"   "20070036566"   "4638760"   "4653896"   "5493382"   "5604575"   "5737680").PN. OR ("7493058").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/12 10:38
L2	7	("20020021914"   "20020025176"   "20020057916"   "5272503"   "5626997"   "6549223"   "6654568").PN. OR ("7274884").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/12 10:38
L3	0	("2006/0285166").URPN.	USPAT	OR	OFF	2009/09/12 10:38
L4	0	("2006/0204257").URPN.	USPAT	OR	OFF	2009/09/12 10:39
L5	1	("2006/0181726").URPN.	USPAT	OR	OFF	2009/09/12 10:39
L6	11	("4682158"   "5459556"   "5528732"   "5793935"   "5802420"   "5930006"   "5950045"   "6266153"   "6278526"   "6356719"   "6661530").PN. OR ("7062190").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/12 10:39
L7	1	("2006/0109491").URPN.	USPAT	OR	OFF	2009/09/12 10:39
L8	25	("4280144"   "4681424"   "4700199"   "4701836"   "5128698"   "5355200"   "5359423"   "5387985"   "5390004"   "5480240"   "5546170"   "5583621"   "5646670"   "5661564"   "5668635"   "5684933"   "5696845"   "5699172"   "5724455"   "5751433"   "5751470"   "5784091"   "5835233"   "5876132"   "5963244").PN. OR ("6975428").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/12 10:39
L9	0	("2004/0131370").URPN.	USPAT	OR	OFF	2009/09/12 10:40

L10	19	("5315352"   "5327196"   "5351107"   "5365313"   "5387965"   "5475476"   "5682572"   "5694223"   "5697011"   "5822079"   "5860038"   "6055386").PN. OR ("6594453").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/12 10:40
L11	2	("2002/0141770").URPN.	USPAT	OR	OFF	2009/09/12 10:40
L12	2	("2002/0071689").URPN.	USPAT	OR	OFF	2009/09/12 10:40
L13	0	("2002/0044786").URPN.	USPAT	OR	OFF	2009/09/12 10:40
L14	17	("4312005"   "5029108"   "5208605"   "5379130"   "5392061"   "5416855"   "5438437"   "5475476"   "5483625"   "5706414"   "5729270").PN. OR ("5835233").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/12 10:40
L15	12	("5117294"   "5404233"   "5581358").PN. OR ("5684933").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/12 10:40
L16	10	("4821068"   "5124732"   "5235384"   "5355200"   "5483625"   "5581358"   "5583621").PN. OR ("5661564").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/12 10:40
L17	32	("4768055"   "4825244"   "4937625"   "4943830"   "4977429"   "5036363"   "5057870"   "5124751"   "5142332"   "5150162"   "5153643"   "5237373"   "5249020"   "5253020"   "5257076"   "5365319").PN. OR ("5652947").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/12 10:40
L18	7	("4853738"   "5075725"   "5404203"   "5483625").PN. OR ("5602637").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/12 10:41
L19	11	("5144337").PN. OR ("5583621").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/12 10:41
L20	12	("5304988"   "5381522"   "5465157").PN. OR ("5581358").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/12 10:41
L21	56	("3409901"   "4468112"   "4566014"   "4847659"   "4908666"   "5204698"   "5204699"   "5291296").PN. OR ("5349377").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/12 10:41

L22	207	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 L21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 10:41
L23	12878	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticographic electrophotography electrophotographic copier copiers printers "print engine" electrostaticographic) near5 (apparatus or device or machine or printer or equipment)) AND (((size OR large\$2 OR small\$3 OR wid \$2) AND (area OR region)) WITH (concentrat\$3 OR dens \$3 OR dark)) AND ((concentrat\$3 OR dens\$3 OR dark) WITH (pixel OR image)) AND ((size OR large \$2 OR small\$3 OR wid\$2) WITH (area OR region)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 10:42
L24	400	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticographic electrophotography electrophotographic copier copiers printers "print engine" electrostaticographic) near5 (apparatus or device or machine or printer or equipment)) AND (((pixel OR dot) WITH size) OR resolution) AND (((pixel OR dot) AND size) OR resolution) WITH ((toner OR developer) AND (sav\$3 OR consumption OR usage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 10:42

L25	393	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticographic electrophotography electrophotographic copier copiers printers "print engine" electrostaticographic) near5 (apparatus or device or machine or printer or equipment)) AND (edge OR ((solid OR interior) AND image)) AND ((edge OR ((solid OR interior) AND image)) WITH ((toner OR developer) AND (sav\$3 OR consumption OR usage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 10:42
L26	204	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticographic electrophotography electrophotographic copier copiers printers "print engine" electrostaticographic) near5 (apparatus or device or machine or printer or equipment)) AND (((toner OR developer) AND (sav\$3 OR consumption OR usage)) WITH ((vari\$2 OR vary\$3 OR increas\$3 OR decreas\$3 OR chang\$3) AND (interior OR inside OR solid) AND (image)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 10:42
L27	7534	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticographic electrophotography electrophotographic copier copiers printers "print engine" electrostaticographic) near5 (apparatus or device or machine or printer or equipment)) AND (((toner OR developer) AND (sav\$3 OR ((low OR lower OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 10:42

		reduced) AND (consum\$4 OR us\$3)))) WITH (mode OR operat\$3))				
L28	31396	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticographic electrophotography electrophotographic copier copiers printers "print engine" electrostatographic) near5 (apparatus or device or machine or printer or equipment)) AND ((toner OR developer) WITH (sav\$3 OR ((low OR lower OR reduced) AND (consum\$4 OR us\$3))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 10:42
L29	131	L27 AND L28 AND ((L23 AND L24) OR L25 OR L26)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 10:42
L30	10	L22 AND L29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 10:42
L31	700	L27 AND L28 AND (L23 OR L24 OR L25 OR L26)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 10:45
L32	26	L22 AND L31	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 10:45
L33	154	(399/26).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/12 10:55

L34	1701	(399/27).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/12 10:55
L35	314	(399/51).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/12 10:55
L36	337	(399/53).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/12 10:55
L37	479	(399/55).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/12 10:55
L38	200	(399/58).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/12 10:55
L39	2944	L33 L34 L35 L36 L37 L38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/12 10:55
S91	4494	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticographic electrophotography electrophotographic copier copiers printers "print engine" electrostaticographic) near5 (apparatus or device or machine or printer or equipment)) AND (((toner OR developer) AND (sav\$3 OR (low AND (consum\$4 OR us\$3)))) WITH (mode OR operat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 06:26

S92	20588	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticographic electrophotography electrophotographic copier copiers printers "print engine" electrostaticographic) near5 (apparatus or device or machine or printer or equipment)) AND ((toner OR developer) WITH (sav\$3 OR (low AND (consum\$4 OR us\$3))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 06:27
S93	2394	S91 AND S92	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 06:28
S94	12878	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticographic electrophotography electrophotographic copier copiers printers "print engine" electrostaticographic) near5 (apparatus or device or machine or printer or equipment)) AND (((size OR large\$2 OR small\$3 OR wid \$2) AND (area OR region)) WITH (concentrat\$3 OR dens \$3 OR dark)) AND ((concentrat\$3 OR dens\$3 OR dark) WITH (pixel OR image)) AND ((size OR large \$2 OR small\$3 OR wid\$2) WITH (area OR region))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 06:29
S95	302	S91 AND S92 AND S94	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 06:30

S96	400	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticographic electrophotography electrophotographic copier copiers printers "print engine" electrostaticographic) near5 (apparatus or device or machine or printer or equipment)) AND (((pixel OR dot) WITH size) OR resolution) AND (((pixel OR dot) AND size) OR resolution) WITH ((toner OR developer) AND (sav\$3 OR consumption OR usage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 06:34
S97	393	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticographic electrophotography electrophotographic copier copiers printers "print engine" electrostaticographic) near5 (apparatus or device or machine or printer or equipment)) AND (edge OR ((solid OR interior) AND image)) AND ((edge OR ((solid OR interior) AND image)) WITH ((toner OR developer) AND (sav\$3 OR consumption OR usage)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 06:37
S98	204	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticographic electrophotography electrophotographic copier copiers printers "print engine" electrostaticographic) near5 (apparatus or device or machine or printer or equipment)) AND (((toner OR developer) AND (sav\$3 OR consumption OR usage)) WITH ((vari\$2 OR vary\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 06:39



		OR increas\$3 OR decreas\$3 OR chang\$3) AND (interior OR inside OR solid) AND (image)))				
S99	32	S91 AND S92 AND S94 AND (S96 OR S97 OR S98)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 06:40
S100	7534	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticographic electrophotography electrophotographic copier copiers printers "print engine" electrostaticographic) near5 (apparatus or device or machine or printer or equipment)) AND (((toner OR developer) AND (sav\$3 OR ((low OR lower OR reduced) AND (consum\$4 OR us\$3)))) WITH (mode OR operat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 07:30
S101	31396	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticographic electrophotography electrophotographic copier copiers printers "print engine" electrostaticographic) near5 (apparatus or device or machine or printer or equipment)) AND ((toner OR developer) WITH (sav\$3 OR ((low OR lower OR reduced) AND (consum\$4 OR us\$3))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 07:30
S102	541	S100 AND S101 AND S94	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 07:31

S103	51	S100 AND S101 AND S94 AND (S96 OR S97 OR S98)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 07:32
S104	131	S100 AND S101 AND ((S94 AND S96) OR S97 OR S98)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 07:57
S105	77	S100 AND S101 AND (naito OR yamauchi OR otomo OR hasegawa OR oshima).inv.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 08:34
S106	70	(NOT S104) AND S100 AND S101 AND (naito OR yamauchi OR otomo OR hasegawa OR oshima).inv.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 08:34
S107	15	S100 AND S101 AND S94 AND (naito OR yamauchi OR otomo OR hasegawa OR oshima).inv.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 08:35
S108	7	S104 AND (naito OR yamauchi OR otomo OR hasegawa OR oshima).inv.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 08:36
S109	33	S104 AND (canon).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/12 08:36

### EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp

L40	150	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticigraphic electrophotography electrophotographic copier copiers printers "print engine" electrostatographic) near5 (apparatus or device or machine or printer or equipment)) AND (((toner OR developer) AND (sav\$3 OR ((low OR lower OR reduced) AND (consum\$4 OR us\$3)))) WITH (mode OR operat\$3))).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2009/09/12 11:04
L41	112	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticigraphic electrophotography electrophotographic copier copiers printers "print engine" electrostatographic) near5 (apparatus or device or machine or printer or equipment)) AND (((toner OR developer) AND (sav\$3 OR ((low OR lower OR reduced) AND (consum\$4 OR us\$3)))) WITH (mode OR operat\$3)) AND ((toner OR developer) WITH (sav\$3 OR ((low OR lower OR reduced) AND (consum\$4 OR us\$3)))) ).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2009/09/12 11:05
L42	1	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticigraphic electrophotography electrophotographic copier copiers printers "print engine" electrostatographic) near5 (apparatus or device or machine or printer or equipment)) AND (((toner OR developer) AND (sav\$3 OR ((low OR lower OR reduced)	US-PGPUB; USPAT; UPAD	OR	ON	2009/09/12 11:06

		AND (consum\$4 OR us\$3))) WITH (mode OR operat\$3)) AND ((toner OR developer) WITH (sav\$3 OR ((low OR lower OR reduced) AND (consum\$4 OR us\$3))) AND (((size OR large\$2 OR small\$3 OR wid\$2) AND (area OR region)) WITH (concentrat\$3 OR dens\$3 OR dark)) AND ((concentrat\$3 OR dens\$3 OR dark) WITH (pixel OR image)) AND ((size OR large\$2 OR small \$3 OR wid\$2) WITH (area OR region)) ).clm.				
L43	6	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticographic electrophotography electrophotographic copier copiers printers "print engine" electrostaticographic) near5 (apparatus or device or machine or printer or equipment)) AND (((toner OR developer) AND (sav\$3 OR ((low OR lower OR reduced) AND (consum\$4 OR us\$3))) WITH (mode OR operat\$3)) AND (((pixel OR dot) WITH size) OR resolution) AND ((((pixel OR dot) AND size) OR resolution) WITH ((toner OR developer) AND (sav\$3 OR consumption OR usage))) ). clm.	US-PGPUB; USPAT; UPAD	OR	ON	2009/09/12 11:08
L44	0	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticographic electrophotography electrophotographic copier copiers printers "print engine" electrostaticographic) near5 (apparatus or device or machine or printer or equipment)) AND (((toner OR developer) AND (sav\$3 OR ((low OR lower OR reduced) AND (consum\$4 OR us\$3)))	US-PGPUB; USPAT; UPAD	OR	ON	2009/09/12 11:10

		WITH (mode OR operat\$3)) AND (edge OR ((solid OR interior) AND image)) AND ((edge OR ((solid OR interior) AND image)) WITH ((toner OR developer) AND (sav\$3 OR consumption OR usage))) ). clm.				
L45	1	((("image forming" (image near8 (formed or forming or formation or formations)) image-forming "image formation" image-formation electrostatic electrostaticographic electrophotography electrophotographic copier copiers printers "print engine" electrostaticographic) near5 (apparatus or device or machine or printer or equipment)) AND (((toner OR developer) AND (sav\$3 OR ((low OR lower OR reduced) AND (consum\$4 OR us\$3)))) WITH (mode OR operat\$3)) AND (((toner OR developer) AND (sav\$3 OR consumption OR usage)) WITH ((vari\$2 OR vary\$3 OR increas\$3 OR decreas\$3 OR chang\$3) AND (interior OR inside OR solid) AND (image))) ) .clm.	US-PGPUB; USPAT; UPAD	OR	ON	2009/09/12 11:10
L46	8	L42 L43 L44 L45	US-PGPUB; USPAT; UPAD	OR	ON	2009/09/12 11:11

9/ 12/ 2009 11:16:27 AM

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